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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,521	05/02/2005	Jurgen Dolderer	23136	4497
535	7590	09/18/2008		
K.F. ROSS P.C. 5683 RIVERDALE AVENUE SUITE 203 BOX 900 BRONX, NY 10471-0900			EXAMINER	
			SUTTON, DARRYL C	
		ART UNIT	PAPER NUMBER	
		1612		
		MAIL DATE	DELIVERY MODE	
		09/18/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/516,521	Applicant(s) DOLDERER, JURGEN
	Examiner DARRYL C. SUTTON	Art Unit 1612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 03 September 2008.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 12-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 15 is/are allowed.
- 6) Claim(s) 12 is/are rejected.
- 7) Claim(s) 13,14,16 and 17 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/1618)
 Paper No(s)/Mail Date 08/01/2008
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Claim Objections

Claims 13, 14, 16 and 17 are objected to because of the following informalities: Applicant has included the copyright symbol in place of "c)" in lines 14, 11, 3 and 3 of the claims, respectively. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hillman et al. (U.S. 6,071,720) in view Bianchi et al. (Cancer Res., 1998) and further in view of Wang et al. (FEBS, 1997).

The rejection is maintained.

Applicant argues that it would not be obvious to combine the references due to the deficiencies of Hillman, i.e. the HERG potassium channel functions differently from the DRPCS potassium ion channel; the structure of the inhibitors of HERG and DRPCS potassium channels are different; the structure of the HERG and DRPCS potassium channels is different.

The Examiner points out that nothing in the prior art differentiates potassium channel types as a target for the treatment of colorectal cancer; but does teach that the DRPCS potassium channel has been targeted for treatment of adenocarcinomas. The prior art also indicates that both types of potassium channels, DRPCS and HERG are present in adenocarcinomas.

Therefore, one would be inclined to try to treat adenocarcinomas, i.e. colorectal carcinomas, with the HERG potassium channel inhibitor based on the prior art teaching that modulation of potassium in cells has been successfully used to treat adenocarcinomas.

Allowable Subject Matter

Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 13, 14, 16 and 17 are objected to because of minor informalities, but would be allowable if appropriate corrections are made.

Claim 15 is allowable.

The Applicant has successfully shown the unexpected and surprising result that HERG potassium channels are differentially expressed in colorectal carcinoma and not in the cells of patients who do not have colorectal cancer. Therefore, the method of detection of HERG potassium channels and a subsequent diagnosis of colorectal carcinoma based on said detection is distinguishable over the prior art. A method of

treatment for colorectal carcinoma with the claimed HERG potassium channel inhibitor would also be distinguishable over the prior art, if the treatment was a method comprised of first detecting the HERG potassium channel, since one of ordinary skill in the art would not be inclined to treat colorectal carcinoma with the claimed HERG potassium channel inhibitor if the diagnosis was not based on the detection of the presence of at least one HERG potassium channel.

Conclusion

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darryl C. Sutton whose telephone number is (571)270-3286. The examiner can normally be reached on M-Th from 7:30AM-5:00PM EST and on Fr from 7:30AM-4:00PM EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frederick Krass can be reached

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at (571)272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Darryl C Sutton/
Examiner, Art Unit 1612

/Frederick Krass/
Supervisory Patent Examiner, Art Unit 1612